



SEQUENCE LISTING

<100> Stanford University
<101> Berger, Carol
Krensky, Alan
Buelow, Roland

<120> IMMUNOMODULATING DIMERS

<130> 28600-20200.23

<140> 08/653,294

<141> 1996-05-24

<150> US 08/222,851

<151> 1994-04-05

<150> US 07/844,716

<151> 1992-03-02

<150> US 07/755,584

<151> 1991-09-03

<150> US 07/672,147

<151> 1991-03-19

<150> US 07/561,246

<151> 1990-07-30

<150> US 07/008,846

<151> 1987-01-30

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<170> FastSEQ for Windows Version 4.0

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<221> VARIANT

<222> (1)... (10)

<223> Xaa⁷⁶ = E or V;

Xaa⁷⁷ = D, S or N;

Xaa⁷⁹ = R or G;

Xaa⁸⁰ = I or N;

Xaa⁸¹ is a hydrophobic or small amino acid;

Xaa⁸² = R or L;

Xaa⁸³ = G or R;

Xaa⁸⁴ = is a hydrophobic or small amino acid.

<400> 1

Arg Xaa⁷⁶ Xaa⁷⁷ Leu Xaa⁷⁹ Xaa⁸⁰ Xaa⁸¹ Xaa⁸² Xaa⁸³ Xaa⁸⁴

1

5

10

Arg Ile Leu Leu Arg Tyr
1 5

<210> 6
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Tyr Arg Leu Leu Ile Arg
1 5

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<400> 7
Tyr Arg Leu Ala Ile Arg
1 5

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Arg Glu Asn Leu Arg Ile Ala Leu Arg Tyr
1 5 10

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Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg
1 5 10

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Arg Glu Asn Leu Arg Ile Leu Leu Arg Tyr
1 5 10

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Tyr Arg Leu Leu Ile Arg Leu Asn Glu Arg
1 5 10

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Arg Glu Asp Leu Arg Ile Ala Leu Arg Tyr
1 5 10

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Tyr Arg Leu Ala Ile Arg Leu Asp Glu Arg
1 5 10

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Arg Glu Asp Leu Arg Ile Leu Leu Arg Tyr
1 5 10

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Tyr Arg Leu Leu Ile Arg Leu Asp Glu Arg
1 5 10

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Tyr Arg Leu Leu Ile Arg Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 17
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<400> 17
Tyr Arg Leu Leu Ile Arg Arg Ile Ala Leu Arg Tyr
1 5 10

<210> 18
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<400> 18

Tyr Arg Leu Ala Ile Arg Arg Ile Leu Leu Arg Tyr
1 5 10

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<222> (1)...(12)

<223> Xaa = D-Arginine

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Tyr Arg Leu Ala Ile Xaa Arg Ile Ala Leu Arg Tyr
1 5 10

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<223> Xaa = D-Isoleucin

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Tyr Arg Leu Ala Ile Arg Ile Xaa Arg Ile Leu Leu Arg Tyr
1 5 10

<210> 21

<211> 15

<212> PRT

<213> Human

<400> 21

Ala Tyr Arg Leu Leu Ile Lys Val Ile Arg Ile Val Leu Lys Tyr
1 5 10 15

<210> 22

<211> 17

<212> PRT

<213> Human

<400> 22

Ser Tyr Lys Leu Val Ile Lys Ile Asn Asn Ile Arg Ile Val Val Lys
1 5 10 15
Phe

<210> 23

<211> 10

<212> PRT

<213> Human

<400> 23

Arg Glu Asp Leu Arg Thr Leu Leu Arg Tyr
1 5 10

<210> 24

<211> 10

<212> PRT

<213> Human

<400> 24

Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr
1 5 10

<210> 25

<211> 10

<212> PRT

<213> Human

<400> 25

Arg Glu Asn Leu Arg Thr Ala Leu Arg Tyr
1 5 10

<210> 26

<211> 20

<212> PRT

<213> Human

<400> 26

Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Ile
1 5 10 15
Ala Leu Arg Tyr
20

<210> 27

<211> 20

<212> PRT

<213> Human

<400> 27

Tyr Gly Arg Leu Asn Arg Leu Ser Glu Arg Arg Glu Ser Leu Arg Asn
1 5 10 15
Leu Arg Gly Tyr
20

<210> 28

<211> 20

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<213> Human

<400> 28

Tyr Arg Leu Ala Thr Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Ile
1 5 10 15
Ala Leu Arg Tyr
20

<210> 29
<211> 20
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<400> 29
Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Thr
1 5 10 15
Ala Leu Arg Tyr
20

<210> 30
<211> 20
<212> PRT
<213> Human

<400> 30
Tyr Arg Leu Ala Thr Arg Leu Asn Glu Arg Arg Glu Asn Leu Arg Thr
1 5 10 15
Ala Leu Arg Tyr
20

<210> 31
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<400> 31
Tyr Arg Leu Ala Ile Arg Leu Asn Glu Arg Tyr Arg Leu Ala Ile Arg
1 5 10 15
Leu Asn Glu Arg
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<210> 32
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Trp Asp Arg Glu Thr Gln Ile Cys Lys Ala Lys Ala Gln Thr Asp Arg
1 5 10 15
Glu Asn Leu Arg Ile Ala Leu Arg Tyr
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<400> 33
Lys Ala Gln Thr Asp Arg Glu Asn Leu Arg Ile Ala Leu Arg Tyr
1 5 10 15

<210> 34
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<212> PRT
<213> Human

<400> 34

Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr
1 5 10

<210> 35

<211> 20

<212> PRT

<213> Human

<400> 35

Tyr Gly Arg Leu Asn Arg Leu Ser Glu Arg Arg Glu Ser Leu Arg Asn
1 5 10 15
Leu Arg Gly Tyr
20

<210> 36

<211> 12

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<400> 36

Tyr Arg Leu Ala Ile Arg Arg Ile Ala Leu Arg Tyr
1 5 10

<210> 37

<211> 10

<212> PRT

<213> Human

<400> 37

Arg Val Asp Leu Arg Thr Leu Arg Gly Tyr
1 5 10

<210> 38

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<221> VARIANT

<222> (1)...(10)

<223> Xaa⁷⁷ = D,S or N;
Xaa⁸⁰ = I or N;
Xaa⁸¹ = A or L;
Xaa⁸² = R or L;
Xaa⁸³ = G or R.

<400> 38

Arg Glu Xaa⁷⁷ Leu Arg Xaa⁸⁰ Xaa⁸¹ Xaa⁸² Xaa⁸³ Tyr
1 5 10

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<222> (1) ... (10)

<223> Xaa⁷⁷ = D, S or N;

Xaa⁸⁰ = I or N;

Xaa⁸¹ = A or L;

Xaa⁸² = R or L;

Xaa⁸³ = G or R.

<400> 39

Tyr Xaa⁸³ Xaa⁸² Xaa⁸¹ Xaa⁸⁰ Arg Leu Xaa⁷⁷ Glu Arg

1

5

10

<210> 40

<211> 12

<212> PRT

<213> Human

<400> 40

Arg Ile Ala Leu Arg Tyr Tyr Arg Leu Ala Ile Arg

1

5

10

<210> 41

<211> 12

<212> PRT

<213> Human

<400> 41

Arg Ile Ala Leu Arg Tyr Arg Ile Leu Leu Arg Tyr

1

5

10

<210> 42

<211> 12

<212> PRT

<213> Human

<400> 42

Tyr Arg Leu Leu Ile Arg Tyr Arg Leu Ala Ile Arg

1

5

10